

WHAT IS CLAIMED IS:

1. An electronic apparatus comprising:  
a housing having a heat-generating component;  
a circulating path through which liquid coolant  
5 for cooling the heat-generating component flows, the  
circulating path having a first connecting end and a  
second connecting end connected to the first connecting  
end; and  
a coolant-absorbent member provided to a junction  
10 between the first connecting end and the second  
connecting end.
2. The electronic apparatus according to claim 1,  
wherein the circulating path includes a heat-receiving  
portion which receives heat of the heat-generating  
15 component, a heat-radiating portion which radiates the  
heat of the heat-generating component, and a pump which  
circulates the liquid coolant between the heat-  
receiving portion and the heat-radiating portion.
3. The electronic apparatus according to claim 1,  
20 which further comprises an outer wall surrounding the  
first connecting end, and in which the second  
connecting end is interposed between the first  
connecting end and the outer wall, and the member is  
interposed between the second connecting end and the  
25 outer wall.
4. The electronic apparatus according to claim 3,  
wherein the first connecting end has an outer

circumferential surface which is surrounded by the second connecting end and a plurality of projections which protrude from the outer circumferential surface.

5           5. The electronic apparatus according to claim 3, which further comprises a receptacle provided between the first connecting end and the outer wall, and in which the first connecting end has an insertion port opening to the receptacle and the second connecting end is inserted into the receptacle through the insertion  
10 port.

6. The electronic apparatus according to claim 3, wherein the member swells upon absorbing the liquid coolant.

15           7. The electronic apparatus according to claim 6, wherein the member is made of rubber-like elastic material which contains water-absorbent polymer.

8. The electronic apparatus according to claim 5, wherein a seal closes the insertion port which covers the member.

20           9. An electronic apparatus comprising:  
a housing;  
a heat-generating component which is contained in the housing;

25           a circulating path through which liquid coolant for cooling the heat-generating component flows, the circulating path having a first connecting end and a second connecting end connected to the first

connecting end;

a coolant-absorbent member which covers a junction between the first connecting end and the second connecting end;

5 a detecting unit which detects whether the member is absorbing the liquid coolant; and

a control unit which determines that the liquid coolant is leaking at the junction between the first and second connecting ends, when the detecting unit  
10 detects that the member is absorbing the liquid coolant.

10. The electronic apparatus according to claim 9, further comprising an alarm unit which generates an alarm indicating that the liquid coolant is leaking at  
15 the junction between the first and second connecting ends, in accordance with a command given by the control unit when the detecting unit detects the liquid coolant absorbed into the member.

11. The electronic apparatus according to claim 9,  
20 wherein the control unit stops the electronic apparatus when the liquid coolant leaks.

12. The electronic apparatus according to claim 9, wherein the circulating path includes a heat-receiving portion which receives heat of the heat-generating  
25 component, a heat-radiating portion which radiates the heat of the heat-generating component, and a pump which circulates the liquid coolant between the

heat-receiving portion and the heat-radiating portion.

13. The electronic apparatus according to claim 12, wherein the pump operates when the control unit gives a command upon detecting that the liquid  
5 coolant is not leaking.

14. The electronic apparatus according to claim 12, wherein the control unit stops the pump when the liquid coolant is leaking.

15. The electronic apparatus according to claim 9,  
10 wherein the detecting unit has a pair of electrodes contacting the member and determines whether the liquid coolant is leaking at the junction between the first and second connecting ends, on the basis of an electrical resistance between the electrodes.

15 16. The electronic apparatus according to claim 9, wherein the detecting unit has first and second electrodes opposing each other across the member and determines whether the liquid coolant is leaking at the junction between the first and second connecting ends,  
20 on the basis of a change in an electrostatic capacitance between the first and second electrodes.

17. An electronic apparatus comprising:

a housing;

a central processing unit which is contained in  
25 the housing and which generates heat while operating;

a circulating path through which liquid coolant for cooling the central processing unit flows, the

circulating path having a first connecting end and a second connecting end connected to the first connecting end;

5 a coolant-absorbent member which covers a junction between the first connecting end and the second connecting end;

a detecting unit which detects whether the member is absorbing the liquid coolant; and

10 a control unit which determines that the liquid coolant is leaking at the junction between the first and second connecting ends, when the detecting unit detects that the member is absorbing the liquid coolant, the control unit being configured to lower a clock frequency of the central processing unit from  
15 a predetermined operating clock frequency of the central processing unit while the liquid coolant is leaking, to compare a temperature of the central processing unit with an upper limit and to stop the electronic apparatus when the temperature of the  
20 central processing unit is higher than the upper limit.

18. The electronic apparatus according to claim 17, further comprising an alarm unit which generates an alarm indicating that the liquid coolant is leaking at the junction between the first and second  
25 connecting ends, the alarm unit being configured to operate when the control unit gives a command upon detecting that the liquid coolant is leaking.

19. The electronic apparatus according to claim 18, wherein the circulating path includes a pump which circulates the liquid coolant and the control unit stops the pump while the liquid coolant is  
5 leaking.

20. The electronic apparatus according to claim 19, wherein the control unit operates the alarm unit before stopping the pump.

21. An electronic apparatus comprising:

10 a housing;

a central processing unit which is contained in the housing, generates heat while operating, the central processing unit is activated at a clock frequency lower than a predetermined operating  
15 frequency, when a power switch of the electronic apparatus is closed;

a circulating path through which liquid coolant for cooling the central processing unit flows, the circulating path having a first connecting end and a  
20 second connecting end connected to the first connecting end;

a coolant-absorbent member which covers a junction between the first connecting end and the second connecting end; and

25 a detecting unit which detects whether the member is absorbing the liquid coolant,

wherein the central processing unit determines

that the liquid coolant is leaking at the junction  
between the first connecting end and the second  
connecting end and stops the electronic apparatus, when  
the detecting unit detects that the member is absorbing  
5 the liquid coolant, and performs a process of changing  
the clock frequency back to the operating clock  
frequency when the detecting unit does not detects that  
the member is absorbing the liquid coolant.

22. The electronic apparatus according to  
10 claim 21, further comprising an alarm unit which  
generates an alarm indicating that the liquid coolant  
is leaking at the junction between the first and second  
connecting ends, the alarm unit being configured to  
operates when the control unit gives a command upon  
15 detecting that the liquid coolant is leaking.